

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
22 September 2005 (22.09.2005)

PCT

(10) International Publication Number
WO 2005/087783 A1

(51) International Patent Classification⁷: **C07F 11/00**,
A61P 35/00

(21) International Application Number:
PCT/PT2004/000004

(22) International Filing Date: 18 March 2004 (18.03.2004)

(25) Filing Language: English

(26) Publication Language: English

(71) Applicant (for all designated States except US): IBET-IN-
STITUTO DE BIOLOGIA EXPERIMENTAL E TEC-
NOLÓGICA [PT/PT]; EAN- Qta. do Marquês - Apt. 12,
P-2781-901 Oeiras (PT).

(72) Inventors; and

(75) Inventors/Applicants (for US only): MATOS, Marta,
R., P., Norton [PT/PT]; Rua do Prior, n°15, 1°esq.,
P-1200-775 Lisboa (PT). ROMÃO, Carlos, C. [PT/PT];
Edifício Neptuno, Bloco B, 2A, Rua da Torre, P-2750-768
Cascais (PT). PEREIRA, Cláudia, Cristina, Lage
[PT/PT]; Largo Jorge Moutinho de Albuquerque, n°3,
4°C, P-2780-255 Oeiras (PT). RODRIGUES, Sandra, S.
[PT/PT]; Edifício Boa Esperança, Bloco 10, n° 4.42.01 B,
r/c esq., Alameda dos Oceanos, P-1990-177 Moscavide
(PT). MORA, Márcia [PT/PT]; Impasse da Cruz, n°2,
2°C, P-2735-355 Cacém (PT). SILVA, Maria, João,
Pires [PT/PT]; Rua Serpa Pinto, n°33, 1°esq., P-2675-447

Odivelas (PT). ALVES, Paula, M. [PT/PT]; Rua Abel
Manta, n°28, 5°C, P-2780-174 Oeiras (PT). REIS, Celso,
Albuquerque [PT/PT]; Rua Pêro Vaz der Caminha, 222,
Apt. 1.4., P-4400 Vila Nova de Gaia (PT).

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.

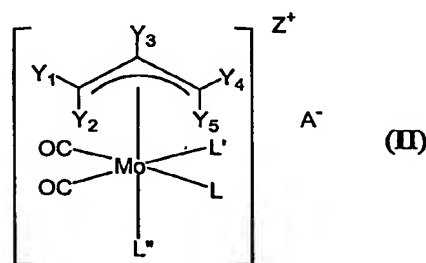
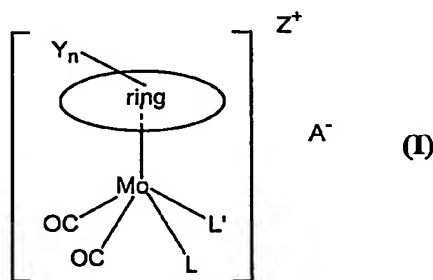
(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),
Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), Euro-
pean (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR,
GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK,
TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW,
ML, MR, NE, SN, TD, TG).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

(54) Title: COMPOSITIONS COMPRISING ORGANOMETALLIC MOLYBDENUM COMPOUNDS FOR TREATING CAN-
CER



(57) Abstract: The invention provides several molybdenum (II) complexes (see classes I and II, figure 1) as well as pharmaceutical compositions comprising these compounds, that are useful for treating cancer and describes synthetic methods and intermediates useful for preparing the compounds.

WO 2005/087783 A1